

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Ralph KRUPKE et al.

Art Unit: Not Yet Assigned

Appl. No: Not Yet Assigned

Examiner: Not Yet Assigned

Confirmation No: Not Yet Assigned

Filed: April 2, 2004

Atty. Docket No: 31775-201454

For: METHOD, ARRANGEMENT AND
USE OF AN ARRANGEMENT
FOR SEPARATING METALLIC
CARBON NANOTUBES FROM
SEMI-CONDUCTING CARBON
NANOTUBES

Customer No:

26694

PATENT TRADEMARK OFFICE

Information Disclosure Statement

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is an Information Disclosure Statement submitted under 37 C.F.R. § 1.97 within the time specified under 37 C.F.R. § 1.97(b).

In order to comply with applicant's duty of disclosure under 37 C.F.R. § 1.56, the U.S. Patent and Trademark Office is notified of the documents which are listed on the attached Form PTO/SB/08A and which the Examiner may deem relevant to patentability of the claims of the above-identified application. A copy of each of the listed documents and two German Office Action are submitted herewith.

Documents A1 - A13 are English language documents so no further statement of relevance need be given.

Applicant(s): Ralph KRUPKE et al.
Atty. Docket No.: 31775-201454

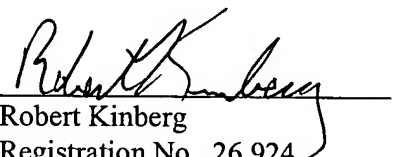
The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In view of the above, no further translation or statement of relevance is required, and as all requirements of 37 C.F.R. § 1.97 and all official guide lines pertaining to Information Disclosure Statements have been complied with, and it is therefore respectfully requested that the Examiner consider the documents and make them of record.

Please charge any necessary fee or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 22-0261.

Respectfully submitted,

Date: April 2, 2004


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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	Not Yet Assigned
		Filing Date	April 2, 2004
		First Named Inventor	Ralph KRUPKE et al.
		Group Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet 1 of 1	Attorney Docket Number	31775-201454	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A1	N. G. GREEN et al., "Dielectrophoretic separation of nano-particles," J. Phys. D: Appl. Phys.30, 1997, pages L41-L44	
	A2	Lorin X. BENEDICT et al., "Static polarizabilities of single-wall carbon nanotubes," Physical Review B, September 15, 1995, pages 8541-8549, Vol. 52, No. 11.	
	A3	R. KRUPKE et al., "Contacting single bundles of carbon nanotubes with alternating electric fields," Applied Physics A, March 2003, pages 397-400.	
	A4	X. Q. CHEN et al., "Aligning single-wall carbon nanotubes with an alternating-current electric field," Applied Physics Letters, June 4, 2001, pages 3714-3716, Vol. 78, No. 23.	
	A5	N. G. GREEN et al., "Separation of submicrometre particles using a combination of dielectrophoretic and electrohydrodynamic forces," J. Phys. D: Appl. Phys. 31, 1998, pages L25-L30.	
	A6	Masao WASHIZU et al., "Molecular Dielectrophoresis of Biopolymers," IEEE Transactions on Industry Applications, July/August 1994, pages 835-843, Vol. 30, No. 4.	
	A7	Michael J. O'CONNELL et al., "Band Gap Fluorescence from Individual Single-Walled Carbon Nanotubes," Science, July 26, 2002, pages 593-596, Vol. 297.	
	A8	Lasse JENSEN et al., "Static and Frequency-Dependent Polarizability Tensors for Carbon Nanotubes," J. Phys. Chem. B., 2000, pages 10462-10466, Vol. 104, No. 45.	
	A9	Jacob KONGSTED et al., "Frequency-Dependent Polarizability of Boron Nitride Nanotubes: A Theoretical Study," J. Phys. Chem. B., 2001, pages 10243-10248, Vol. 105, No. 42.	
	A10	M. MACHON, et al., "Ab initio calculations of the optical properties of 4-Å-diameter single-walled nanotubes," Physical Review B. 66, pages 155410-1 - 155410-5.	
	A11	Ralph KRUPKE et al., "Separation of Metallic from Semiconducting Single-Walled Carbon Nanotubes," Science, July 18, 2003, pages 344-347, Vol. 301.	
	A12	R. F. Service: "Sorting technique may boost nanotube research," Science 300, 2003, pages 2018	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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